SEC For	m 4															
FORM 4 UNITED STAT					ES S			ES AND		NGE C	ОММІ	SSION		OMB /	APPROV	/AL
Section 16. Form 4 or Form 5 obligations may continue. See					NT OF CHANGES IN BENEFICIAL OWNE I pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940							Estimate			Number: 3235-0287 nated average burden s per response: 0.5	
1. Name and Address of Reporting Person* BRUM LYNNE H					2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN ]							eck all applie Directo	able)	10% Owne		
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY					3. Date of Earliest Transaction (Month/Day/Year) 09/28/2021							X below) below) VP Planning and Comms				
(Street) WOBURN MA 01801					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate)														
Table I - Non-Deriva   1. Title of Security (Instr. 3) 2. Transa Date (Month/D						2A. Deem Executior if any	ed 1 Date	e, 3. 4. Securities A Transaction Code (Instr. 5)			or Beneficially Owned es Acquired (A) or Of (D) (Instr. 3, 4 and Securities Beneficially		nt of s	Form:	n: Direct	7. Nature of Indirect Beneficial
						(Month/Da	ay/Yea	ar) 8) Code V	Amount	(A) or (D)	Price	Reported Transact	Owned Following Reported Transaction(s) (Instr. 3 and 4)			Ownership (Instr. 4)
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Ye	Date, Transa Code (			ive ies ed ed Instr.	6. Date Exerc Expiration D (Month/Day/N	ate	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e ( s F lly [ i (	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Cod	ie V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$6.3	09/28/2021		A		18,000		(1)	09/28/2031	Common Stock	18,000	\$0	18,000	0	D	

Explanation of Responses:

1. These options will vest and become exercisable in equal quarterly installments over 4 years from 9/28/2021, beginning on 12/28/2021 and ending on 9/28/2025.

## <u>/s/ Megan N. Gates, attorney-</u> in-fact

<u>- 09/29/2021</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.